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Notes 5: Essential Linux Commands for Text Processing

cat

Definition:

Concatenates and displays files.

Usage

```
cat [option] [file...]
```

Examples:

• Display the contents of a file:

```
• cat file.txt
```

• Concatenate several files into one:

```
• cat file1.txt file2.txt > combined.txt
```

tac

Definition:

Concatenates and displays files in reverse.

Usage

```
tac [file...]
```

Examples:

• Display the contents of a file in reverse:

```
• tac file.txt
```

head

Definition:

Outputs the first part of files.

Usage

```
head [option] [file...]
```

Examples:

- Display the first 10 lines of a file:
 - head file.txt

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• Display the first 20 lines of a file:

```
• head -n 20 file.txt
```

tail

Definition:

Outputs the last part of files.

Usage

```
tail [option] [file...]
```

Examples:

- Display the last 10 lines of a file:
 - tail file.txt
- Display the last 15 lines of a file:
 - tail -n 15 file.txt

cut

Definition:

Removes sections from each line of files.

Usage

```
cut [options] [file]
```

Examples:

- Extract the first column from a file:
 - cut -d',' -f1 file.txt
- Extract multiple columns from a file:
 - cut -d',' -f1,2 file.txt

sort

Definition:

Sorts lines of text files.

Usage

```
sort [options] [file...]
```

Examples:

- Sort a file alphabetically:
 - sort file.txt

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• Sort a file numerically:

```
• sort -n file.txt
```

WC

Definition:

Prints newline, word, and byte counts for each file.

Usage

```
wc [options] [file...]
```

Examples:

- Count lines, words, and characters in a file:
 - wc file.txt
- Count only lines in a file:
 - wc -l file.txt

diff

Definition:

Compares files line by line.

Usage

```
diff [options] file1 file2
```

Examples:

- Compare two files:
 - diff file1.txt file2.txt

grep

Definition:

Searches for patterns in files.

Usage

```
grep [options] pattern [file...]
```

Examples:

- Search for the word "error" in the file:
 - grep "error" file.txt
- Count the number of lines that contain the word "success":

```
• grep -c "success" file.txt
```